

Notice of Allowability

Application No.

10/642,512

Examiner

Daniell L. Negrón

Applicant(s)

MELROSE ET AL.

Art Unit

2627

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed 3 May 2006.
2. ☒ The allowed claim(s) is/are 38-130, 132, 133, and 135-138 (to be renumbered 1-99).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

WAYNE YOUNG
SUPERVISORY PATENT EXAMINER

Allowable Subject Matter

1. Claims 38-130, 132, 133, and 135-138 (to be renumbered 1-99) are allowed.
2. The following is an examiner's statement of reasons for allowance:

Regarding claims 38-57, claims 38 and 48 disclose a method for self-servo writing in a disk drive, comprising the steps of providing a reference pattern on the disk, then generating a position error signal (PES) using the transducer to read the reference pattern during a revolution of the disk, wherein the PES indicates repeatable runout (RRO) for the servo burst, self-writing a servo burst on the disk using the transducer during the revolution of the disk, wherein the PES indicates RRO for the servo burst, calculating an embedded runout correction (ERC) value for the servo burst using the PES, and storing the ERC value on the disk, which is neither disclosed or an obvious variation of the prior art.

Regarding claims 58-77, claims 58 and 68 disclose a method for self-servo writing in a disk drive, comprising the steps of providing a reference pattern on a disk, then self-writing A and B bursts on the disk using the transducer, wherein the servo bursts are radially offset, circumferentially staggered servo burst that form an A, B servo burst pair, generating a PES using the transducer to read the reference pattern after self-writing the A servo burst and before self-writing the B servo burst, wherein the PES indicates RRO for the B servo burst, calculating an ERC value for the B servo burst using the PES, and storing the ERC value on the disk, which is neither disclosed or an obvious variation of the prior art.

Regarding claims 78-127, reasons for allowance are as discussed in the previous Office action mailed November 1, 2005.

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Regarding claims 128-130, 132, 133, and 135-137, claim 128 discloses a disk drive, wherein the disk drive comprises a controller that generates a PES using the transducer to read a reference pattern while the transducer is at a radial position, self-writes a servo burst on the disk using the transducer while using the PES to position the transducer at the radial position, wherein the PES indicates RRO for the servo burst, generates a second PES using the transducer to read the reference pattern while the transducer is at a second radial position, self-writes a second servo burst on the disk using the transducer while using the second PES to position the transducer at the second radial position, wherein the servo bursts are radially offset, circumferentially staggered servo bursts, and the second PES indicates RRO for the second servo burst, calculates an ERC value for the servo bursts using the PES's and writes the ERC value to the disk using the transducer, which is neither disclosed or an obvious variation of the prior art.

Regarding claim 138, claim 138 disclose a disk drive, wherein the disk drive comprises a controller that generates a PES using the transducer to read a reference pattern while the transducer is at a radial position, self-writes a servo burst on the disk using the transducer while using the PES to position the transducer at the radial position, generates a second PES using the transducer to read the reference pattern while the transducer is at a second radial position after self-writing the servo burst, wherein the second PES indicates RRO for the servo burst, generates an interpolated PES using the PES's, calculates an ERC value for the servo burst using the interpolated PES, and writes the ERC value to the disk using the transducer, wherein the PES indicates RRO for the servo burst, which is neither disclosed or an obvious variation of the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Response to Arguments

3. Applicant's arguments, see pages 30-36, filed May 3, 2006, with respect to claims 38-41, 45-50, 55-61, 65-71, 75-77, 88-91, 95-97, 128-130, and 135-137 have been fully considered and are persuasive. The rejections of the claims have been withdrawn.


Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniell L. Negrón whose telephone number is 571-272-7559. The examiner can normally be reached on Monday-Friday (8:30am-5:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wayne R. Young can be reached on 571-272-7582. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DLN 
May 18, 2006


WAYNE YOUNG
SUPERVISORY PATENT EXAMINER